LAB 16 - Importing Cogo Points

Chapter Objectives:

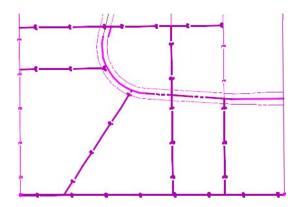
- Import Cogo Points from graphics
- Import Cogo Points from ICS

Lab 16.1 - Importing Cogo Points from Graphics

Graphic elements can be imported to generate geometry. Some of the valid element types are: lines, linestrings, cells, text, shapes, etc. Refer to the InRoads help topic Import Geometry

To import Cogo points from a graphics file;

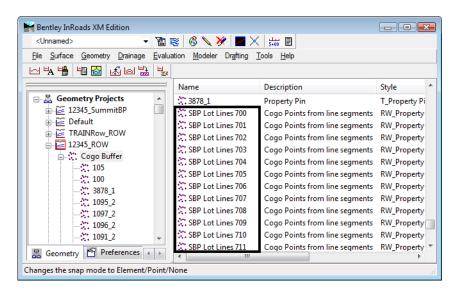
1. Identify graphics using a selection set or a MicroStation fence



rom Graphics	ICS	Verti	cal from Surface		
Type:	Cogo Points 🔹			•	Apply
Geometry					
Name:	SBP Lo	SBP Lot Lines 700			
Description:	Cogo Po	oints f	ts		
Style:	RW_Pr	operty	-Bndry-Line_ex	•	Help
Horizontal Curve Definition:		Arc	*		
Vertical Curve	Vertical Curve Definition:		Parabolic	*	
5	2010				
Use Fence			e Gaps and Non Nicate Cogo Poir	10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	
All Selected	Elements	s Add	ed to Single Alig	nment	
Attribute Tag	s				
📃 Use Tag I	Data				
Project	(Activ	e	*	
Marrie Car	nflicts:	No O	verwrite	-	
Name Cor					

2. Select File > Import > Geometry > [From Graphics] Type - Cogo Points

- 3. **<D> Apply**
- 4. Verify the results



Lab 16.2 - Importing Cogo Point from ICS

From the CDOT manual: Roadway Design Using InRoads – Importing Geometry from text files

Text files may be imported from several formats, the easiest of which to create is an *.ics* file. (Interactive Coordinate geometry Subsystem) This file type was first used with a product of the same name many years ago, but is still in use with InRoads today. It is basically a list of cogo commands along with the input for those commands.

If you have a text file of coordinates, you can create an .ics file by adding a **Store** command at the top and formatting the file similar to the one shown below.

📃 Untitle	ed - Notepa	d			×
File Edi	t Format	View	Help		
;	Exampl	e.ics	file		-
	Coordi	nates	of retai	ning wal	=
STORE					-
	1		399.33	1836109.02	
	2 3 4 5 6		234.94	1836247.39	
	3		234.94	1836247.39	
	4	934:	143.68	1836320.34	
	5	932	352.65	1833973.84	
	6	934	050.02	183686.24	
					-
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1. Choose File > Import > Geometry > [ICS]

2. Browse to find the file then choose Apply.

Import Geometry	
From Graphics ICS Vertical from Surface	
File Name:	Apply
C:\Projects\12345\Design\InRoads\sample.ics	Browse
	Preview
	Help
	Пар
Close	

The cogo points will be added to the active geometry project. You may then use **Geometry** > **Utilities** > **Create/Edit Alignment** to join the points, forming an Alignment and **Geometry** > **Horizontal Curve Sets** > **Define Curves** to add curves to the alignment. You can also accomplish these same tasks within the .ics file. See the Bentley Help topic *Alpha Cogo*